

**REMARKS**

Applicant appreciates the Examiner's thorough consideration provided the present application. Claims 1-11 are now present in the application. Claims 1-9 have been amended. Claims 10 and 11 have been added. Claim 1 is independent. Reconsideration of this application, as amended, is respectfully requested.

**Claim Objection**

Claim 8 has been objected to due to the presence of minor informalities. In view of the foregoing amendments, it is respectfully submitted that this objection has been addressed. Reconsideration and withdrawal of this objection are respectfully requested.

**Claim Rejections Under 35 U.S.C. §§ 102 & 103**

Claims 1, 2 and 4-9 stand rejected under 35 U.S.C. § 102(e) as being anticipated by Barringer, U.S. Patent No. 6,785,133. Claim 3 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Barringer in view of Chong, U.S. Patent No. 6,377,471. These rejections are respectfully traversed.

In light of the foregoing amendments to the claims, Applicant respectfully submits that these rejections have been obviated and/or rendered moot. As the Examiner will note, independent claim 1 has been amended to recite a combination of elements including "the power supply being inserted into the first component in a first direction" and "the second component being received by the connection component of the motherboard in a second direction perpendicular to the first direction". Support for claim 10 can be found in FIGs. 3C, 4 and 5 of the instant application. Applicant respectfully

submits that the above combination of elements as set forth in amended independent claim 1 is not disclosed nor suggested by the references relied on by the Examiner.

Barringer discloses a high density modular I/O package including power supplies (21, 22), planar boards (14A, 14B), and a midplane 28 connected to the power supplies (21, 22) and to the planar boards (14A, 14B) (see FIG. 1). Barringer also discloses that the power supplies (21, 22) have connectors 56 at the rear for plugging into the power connectors 100 of the midplane 28 (see FIGs. 2, 5 and 9; col. 5, lines 9-10; col. 6, lines 21-24). As shown in FIG. 9, the power supplies (21, 22) are plugged into the power connectors 100 of the midplane 28 in the lateral direction, i.e., the right-to-left direction (see the arrow direction on the right side in FIG. 9).

Barringer also discloses that the planar boards (14A, 14B) have power connectors 157 for mating with the power connectors 104 of the midplane 28 (see FIGs. 6, 7 and 9; col. 6, lines 30-34). As shown in FIGs. 7 and 9, the planar boards (14A, 14B) are plugged into the power connectors 104 of the midplane 28 in the opposite lateral direction, i.e., the left-to-right direction.

Accordingly, Barringer merely teaches that the direction for plugging the power supplies (21, 22) into the midplane 28 and the direction for plugging the planar boards (14A, 14B) into the midplane 28 are parallel. Therefore, Barringer fails to teach “the power supply being inserted into the first component in a first direction” and “the second component being received by the connection component of the motherboard in a second direction perpendicular to the first direction” as recited in claim 1.

To further clarify the present invention, Applicant respectfully submits that the perpendicular insertion directions provide for a feature that can effectively reduce the

space of the system. Unlike the present invention, Barringer requires a casing with a larger base for accommodating both the boards and the power supplies due to the parallel arrangements, which is one drawback the present invention has overcome.

With regard to the Examiner's reliance on Chong, this reference has only been relied on for its teachings of a gold finger. Chong also fails to disclose the above combination of elements as set forth in amended independent claim 1. Accordingly, Chong fails to cure the deficiencies of Barringer.

Accordingly, neither of the references utilized by the Examiner individually or in combination teaches or suggests the limitations of amended independent claim 1 or its dependent claims. Therefore, Applicant respectfully submits that independent claim 1 and its dependent claims clearly define over the teachings of the references relied on by the Examiner.

Accordingly, reconsideration and withdrawal of the rejections under 35 U.S.C. §§ 102 and 103 are respectfully requested.

#### **Additional Claims**

Additional claim 10 has been added for the Examiner's consideration.

Dependent claim 10 recites "the secondary rack has an opening and the rear panel further comprises a third component, a circuit board being inserted through the opening of the secondary rack and being received by the third component of the rear panel, the circuit board having one or more power jacks for receiving an external power supply". Support for claim 10 can be found in FIGs. 3B, 3C and 5 of the instant application. The Examiner referred to Barringer's lower portion in FIG. 2, midplane 28, and signal

connector 101 as the secondary rack, the rear panel, and the third component of the claimed invention. However, Barringer fails to disclose that the secondary rack (the lower portion in FIG. 2) has an opening, that a circuit board (14A) is inserted through the opening of the secondary rack (the lower portion in FIG. 2) and is received by the third component (signal connector 101) of the rear panel (the midplane 28), and that the circuit board (14A) has one or more power jacks for receiving an external power supply as recited in claim 10.

Accordingly, Applicant respectfully submits that claim 10 is allowable due to the above recitation, as well as due to its dependence on independent claim 1.

Independent claim 11 includes all limitations of claim 1 and further recites that the first direction is parallel to a normal of the rear panel and the second direction is perpendicular to the first direction and perpendicular to a normal of the rear panel. As mentioned, since Barringer merely teaches that the direction for plugging the power supplies (21, 22) into the midplane 28 and the direction for plugging the planar boards (14A, 14B) into the midplane 28 are parallel, Barringer also fails to teach the additional limitations recited in claim 11. Favorable consideration and allowance of additional claims 10 and 11 are respectfully requested.

### CONCLUSION

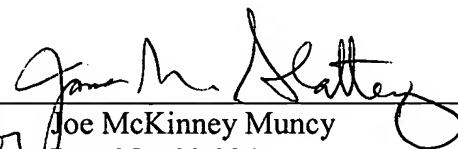
It is believed that a full and complete response has been made to the Office Action, and that as such, the Examiner is respectfully requested to send the application to Issue.

In the event there are any matters remaining in this application, the Examiner is invited to contact Joe McKinney Muncy, Registration No. 32,334 at (703) 205-8000 in the Washington, D.C. area.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

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